

Orlando Alvarez Fuentes

Department of Plant Biology
Michigan State University
166 Plant Biology Building
East Lansing, MI 48824-1312

e-mail: alvare17@msu.edu

Phone (517) 355-4696

Fax (517) 353-1926

EDUCATION

PhD. Candidate, Michigan State University, East Lansing, MI, U.S.A.

Dual Major: Botany (Plant Systematics) and Ecology, Evolutionary Biology, and Behavior
Dissertation Title: “The systematics and biogeography of *Thelypteris* subgenus *Amauropelta* (Pteridophyta) in the West Indies”.

2001–Present

M.S. Program in Botany, Universidad de la Habana, Havana, CUBA

Major: Systematic of Higher Plants, National Botanical Garden of Cuba
Thesis Research: “Ecological studies about the impact of serpentine soils in the distribution of endemic plants in Cuba.”

1995–1997. All classes and exams were taken but thesis was not submitted.

Licenciado en Biología (B.S. in Biology Sciences), Universidad de la Habana, Havana, CUBA

Honors Thesis from the National Botanical Garden of Cuba: “Contribution to the study of genus *Thelypteris*, subgenus *Amauropelta*, section *Amauropelta* in Cuba”.

1990–1995

RESEARCH AND TEACHING POSITIONS

Michigan State University, Department of Plant Biology, East Lansing, MI, U.S.A.

Teaching Assistantships:

2004 – Present Department of Plant Biology
Michigan State University
PLB 418 – Plant Systematics
BS 110 – Organisms and Populations

Guest Lecturer:

February 2007 **PLB 418 – Plant Systematics**

Herbarium Assistantships:

2001 – Present Michigan State University Herbarium (MSC)
Positions held in both the vascular plant and lichen collections

National Botanical Garden of Cuba, University of Havana, Havana, CUBA

Research:

1993–1997

Scientific Unit of the National Botanical Garden of Cuba

- Systematic studies in Pteridophytes (ferns), families *Thelypteridaceae*, *Hymenophyllaceae* and *Pteridaceae*.
- Ecological studies about the impact of the serpentine soils in the distribution of endemic plants in Cuba.

CURRENT RESEARCH PROJECTS

The Systematics and Biogeography of *Thelypteris* subgenus *Amauropelta* in the West Indies

PUBLICATIONS

[Alvarez-Fuentes, O. and C. Sánchez. 2005. New species and new combinations of *Thelypteris*, subgenus *Amauropelta* section *Amauropelta* from Cuba. American Fern Journal 95: 30-42.](#)

[Alvarez-Fuentes, O. and C. Sánchez. 2005. Notes: On the lectotypification of *Thelypteris scalpturoides* \(Thelypteridaceae\). American Fern Journal 95: 43-44.](#)

Prather, A., **O. Alvarez-Fuentes**, Mark H. Mayfield, and Carolyn J. Ferguson. 2004. Documenting the Decline of Plant Collecting in the United States. *Systematic Botany* 29: 15-28.

Prather, A., **O. Alvarez-Fuentes**, Mark H. Mayfield, and Carolyn J. Ferguson. 2004. Commentary: The Implications of the Decline in Plant Collecting for Systematic and Floristic Research. *Systematic Botany* 29: 216-220.

PUBLISHED SCIENTIFIC ILLUSTRATIONS (partial list)

[Alvarez-Fuentes, O. and C. Sánchez. 2005. New species and new combinations of *Thelypteris*, subgenus *Amauropelta* section *Amauropelta* from Cuba. American Fern Journal 95: 30-42.](#)

Sánchez, C and L. Regalado. 2003. Aspleniaceae in *Flora de la República de Cuba: Series A: Plantas Vasculares. Fascículo 8* (3 scientific illustrations of *Asplenium monodon*, *A. auritum* and *A. monodon* X *auritum*)

Prather, L. A. and J. A. Keith. 2003. *Monarda humilis* (Lamiaceae), a new combination for a species from New Mexico, and a key to the species of section *Cheilyctis*. *Novon* 13: 104-109.

Regalado, L. and C. Sánchez. 2001. Problemática del complejo *Asplenium auritum* Sw. (Aspleniaceae: Pteridophyta) y especies afines en Cuba. *Revista del Jardín Botánico Nacional* 22: 7-28.

Sánchez, C. and M. G. Caluff. 1996. The genus *Hymenophyllum* Smith in the Greater Antilles. Pp. 61-73, in *Pteridology in Perspective*, J. M. Camus, M. Gibby and R. J. Johns (editors), Royal Botanic Gardens KEW, UK.

ABSTRACTS PUBLISHED & PRESENTATIONS IN CONGRESSES

- 2005 The family Thelypteridaceae in Cuba. 56 Congresso Nacional de Botânica. Curitiba, Brasil. Octubre 2005.
- 2005 The family Thelypteridaceae in Cuba. Botany 2005 (Annual meeting of the American Society of Plant Taxonomist), Austin, TX, August 12-18, 2005.
- 2004 Patrones temporales de colecta: ¿A que paso los herbarios de los Estados Unidos están acumulando especímenes? (Temporal collecting patterns: At what rate are US herbaria accumulating specimens?). Centenario del Herbario HAC, April 19-24, 2004. Havana, CUBA
- 2004 Patrones temporales de colecta: ¿A que paso los herbarios de los Estados Unidos están acumulando especímenes? (Temporal collecting patterns: At what rate are US herbaria accumulating specimens?). Tropico 2004, April 4-9, 2004. Havana, CUBA.
- 2003 Documenting the decline in plant collecting in the United States: Implications for systematic and floristic research. Botany 2003 (Annual meeting of the American Society of Plant Taxonomist), Mobile, AL, July 26-31, 2003.
- 2002 Las especies cubanas de *Thelypteris*, subgenus *Amauropelta*, section *Amauropelta* (The Cuban species of *Thelypteris*, subgenus *Amauropelta*, section *Amauropelta*). VIII Congreso Latinoamericano de Botánica y II Congreso Colombiano de Botánica, Cartagena de Indias, Colombia. October 13-18, 2002.
- 2002 Patrones temporales de colecta: ¿A que paso los herbarios de los Estados Unidos están acumulando especímenes? (Temporal collecting patterns: At what rate are US herbaria accumulating specimens?). VIII Congreso Latinoamericano de Botánica y II Congreso Colombiano de Botánica, Cartagena de Indias, Colombia. October 13-18, 2002.
- 2002 Temporal collecting patterns: At what rate are US herbaria accumulating specimens? Botany 2002 (Annual meeting of the American Society of Plant Taxonomist), Madison, WI, August 3-8, 2002.
- 1996 Study of cell patterns in Cuban species of Family *Hymenophyllaceae* (Patrones celulares en especies cubanas de la familia *Hymenophyllaceae*). V Simposio de Botánica. National Botanic Garden of Cuba, Havana City, Cuba. July 10-13, 1996.
- 1995 New species of genus *Thelypteris*, subgenus *Amauropelta* in Cuba (Nuevas especies de *Thelypteris*, subgenus *Amauropelta* en Cuba). V Encuentro de Botanica "Johannes Bisse in Memoriam". Pedagogical School of Camaguey, Camaguey, Cuba. December 14, 1995.
- 1995 Contributions to genus *Thelypteris*, subgenus *Amauropelta* in Cuba (Contribuciones al género *Thelypteris*, subgenus *Amauropelta* en Cuba). X Foro Provincial de Ciencia y Técnica, Havana City, Cuba. November 3, 1995.
- 1995 Contributions to genus *Thelypteris*, subgenus *Amauropelta* in Cuba (Contribuciones al género *Thelypteris*, subgenus *Amauropelta* en Cuba). VI Forum Científico Estudiantil, Universidad de la Habana, Havana City, Cuba. May 5, 1995

AWARDS, GRANTS, AND FELLOWSHIPS

- 2006 Summer Fellowship, Ecology, Evolutionary Biology & Behavior Program, MSU
- 2006 Travel Fellowship, Ecology, Evolutionary Biology & Behavior Program, MSU
- 2006 “Paul Taylor Academic Enrichment Fund”, Department of Plant Biology, MSU
- 2005 “Paul Taylor Academic Enrichment Fund”, Department of Plant Biology, MSU
- 2004 “Delzie Demaree Travel Award”, Missouri Botanical Garden
- 2004 “Paul Taylor Academic Enrichment Fund”, Department of Plant Biology, MSU
- 2004 “Botanical Society of America Graduate Student Research Award”
- 2004 “Shirley and Alan Graham Student Research Grant” of ASPT
- 2003 “Paul Taylor Academic Enrichment Fund”, Department of Plant Biology, MSU
- 2002 Graduate Office Fellowship, The Graduate School, MSU
- 2002 “Paul Taylor Academic Enrichment Fund”, Department of Plant Biology, MSU

SERVICES

- 2006 T-shirts design for the EEBB (Ecology, Evolutionary Biology and Behavior) Program, Michigan State University, East Lansing, MI, USA
- 2005 T-shirts design for the Dept. of Plant Biology, Michigan State University, East Lansing, MI, USA
- 2005 Logo design for the Michigan State University Herbarium (MSC), Dept. of Plant Biology, Michigan State University, East Lansing, MI, USA
- 2004 T-shirts design for the Dept. of Plant Biology, Michigan State University, East Lansing, MI, USA
- 2001 T-shirts design for the Dept. of Plant Biology, Michigan State University, East Lansing, MI, USA
- 1999 Ambassador of the Beal Botanical Garden, Michigan State University, East Lansing, MI, USA
- 1996–1997 Computer Committee, National Botanical Garden of Cuba, University of Havana, Havana, CUBA
- 1995–1997 Ambassador of the National Botanical Garden of Cuba, University of Havana, Havana, CUBA.

LANGUAGE COMPETENCY

- Spanish (first language)
- English (second language)

PROFESSIONAL AFFILIATIONS (Current)

- American Society of Plant Taxonomists, since 2002
- American Fern Society, since 2003
- Botanical Society of America, since 2003
- Society of Systematic Biologists, since 2006